

CURRICULUM VITAE CHARALAMBOS NICOLAOU

PERSONAL DETAILS

University of Cyprus

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CURRENT POSITION

- Research and Technical Associate of the High Energy Physics Laboratory, University of Cyprus.
- Technical Supervisor of Spectrum Monitoring and Control Laboratory, University of Cyprus.
- Laboratory and Teaching Assistant of the Electromagnetic Fields Undergraduate Course(FYS115).

PREVIOUS EXPERIENCE

- Teaching Assistant of the Laboratory Undergraduate Course of the Department of Electrical and Computer Engineering, University of Cyprus, for two semesters.
- Technician at the Ianos Computer Company, during his studies where he had the opportunity to work on network design, software and hardware installations.
- European Computer Driving License (ECDL) Teacher, at a Computer Learning Centre.

EDUCATION

- MSc in Electrical and Computer Engineering (2001).
- BSc in Electrical and Computer Engineering, Democritus University of Thrace, Greece, Department of Electrical and Computer Engineering (July 2001). Thesis: "Electromagnetic Methods for Ground Penetrate Radar". During the above thesis he had successfully designed, manufactured and implemented a certain radar system for the scanning of underground materials.
- Graduate of Technical School of Paphos, Cyprus, in Electrical Installations, 1991.

PROFESSIONAL SOCIETIES

Member of ETEK since 2001, in the fields of:

- "Electrical Engineering".
- "Electronics and Computer Engineering".

MILITARY SERVICE

Completed military service as a Sergeant from 1991-1993 for a duration of 26 months.

RESEARCH PROGRAMS

- 2001 - 2003: ΗΜΠΕΔΙΑ: "Charting the intensity levels of Electromagnetic Fields in Cyprus. Safety limits with respect to their possible influence on human health".
- 2002 - 2004: ΗΛΕΔΙΚ: "Comparison of the intensity levels of Electromagnetic Fields at the installations of the Electricity Network with the simulation results based on Finite Element Analysis".
- 2003 - 2012: "High Energy Physics with the CMS Experiment at LHC, CERN".
- 2004 - 2007: "High Frequency Ultrasound Spectral Imaging of Congenital Multiple and Large Nevi", Research Promotion Foundation (ΙΠΕ).
- 2005 - 2008: ΕΠΕΦ: "Spectrum Monitoring and Control Laboratory". Research Promotion Foundation (ΙΠΕ).
- 2005: ΕΒΗΚ: "Calibration and Control of the Very Front Electronic Modules of the CMS Electromagnetic Calorimeter". Research Promotion Foundation (ΙΠΕ).
- 2006: ΕΠΗΣΚ: "Study of the Specifications of the Data Acquisition Electronic Cards of the CMS Electromagnetic Calorimeter at CERN". Research Promotion Foundation (ΙΠΕ).
- 2007: "Conducting measurements of the whole mobile telecommunication distribution network of the Cyprus Telecommunication Authority", for the periods 1/1/2007-30/6/2007 and 1/6/2007-31/12/2007.
- 2007 - 2009: KM3NeT: A European Deep-Sea Research Infrastructure (Neutrino Telescope).
- 2007- 2009: "Detection, Recording and Study of the Characteristics of the Non-Ionizing Electromagnetic Radiation in the Environment", INTERREG IIIA, Greece-Cyprus.
- 2008 - 2010: "Search for Light neutral NMSSM higgs Bosons". ΤΕΧΝΟΛΟΓΙΑ/ΘΕΠΙΣ/0308. Research Promotion Foundation (ΙΠΕ).
- 2010 - 2013: "Upgrade of the existing High Performance Linux Cluster for the experiment CMS "Research Promotion Foundation (ΙΠΕ).
- 2010 - 2012 : "Search for neutral SM and MSSM Higgs bosons in the decay channel $H/A/h \rightarrow \tau\tau$ ". Research Promotion Foundation (ΙΠΕ).

SCIENTIFIC REPORTS

Since 2001, conducted measurements for governmental and public purposes, to evaluate the effect of the non-ionizing electromagnetic radiation which is transmitted by radio stations, TV, radars, mobile telecommunication antennas, power transmission lines and substations on human health, a total of more than 1100 reports.

INCUBATOR PROGRAMS

DactoLive: Opto-electronical Identification Systems using Novel Dactyloscopy Technology, ERMIS Research & Incubator Center.

JOURNAL PUBLICATIONS

- C P Nikolaou, A P Papadakis, P A Razis, G A Kyriakou and J N Sahalos, "Simplistic numerical methodology for magnetic field prediction in open air type substations", *Electric Power Systems Research*, Volume 81, Issue 12, December 2011, Pages 2120-2126.
- C P Nikolaou, A P Papadakis, P A Razis, G A Kyriakou and J N Sahalos, "Measurements and predictions of electric and magnetic fields from power lines", *Electric Power Systems Research*, Volume 81, Issue 5, May 2011, Pages 1107-1116.
- A P Papadakis, A. Petrides, C. Nicolaou, F. Ptochos and P. Razis, "Υπολογιστικός Αλγόριθμος για τη Βαθμολόγηση των Νεκρών Κρυστάλλων του Ηλεκτρομαγνητικού Καλοριμέτρου του Πειράματος CMS", *ΥΨΙΠΕΤΗΣ*, Volume 16, November-December 2007, ISSN 1986-0218, Pages 28-30.

CONFERENCE PUBLICATIONS

- C. P. Nicolaou, Antonis P. Papadakis, Panos A. Razis, George A. Kyriacou, and John N. Sahalos, "Numerical simulations versus experimental measurements for the magnetic field generated in open air type substations in Cyprus", 13th Biennial IEEE Conference on Electromagnetic Field Computation (IEEE CEFC), May 11–15, 2008 Athens, Greece.
- Apostolos S. Kyriakou, Charalambos P. Nicolaou, and Panos A. Razis, "Automatization on the reports of the laboratory of monitoring of the Electromagnetic Spectrum", IOS Press monograph (Studies in Applied Electromagnetics and Mechanics).
- Georgios A. Christofi, Charalambos P. Nicolaou, and Panos A. Razis, "Measurements automation, processing, monitoring and control of the electromagnetic spectrum via the advantest spectrum analyzer R3131A", IOS Press monograph (Studies in Applied Electromagnetics and Mechanics).

- Michael A. Marios, Nicolaou Charalambos, Razis A. Panos, "Shielding electromagnetic fields through simulations with the use of the OPERA 3-D Vector Fields Electromagnetic Analysis Environment. ISEF 2009 - XIV International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering, ARRAS – 10-12 September 2009.
- Antonis P. Papadakis, George S. Stavrides, Stamatis D. Rossides and Charalambos P. Nicolaou, "Past, present and future prospects of the photovoltaic market-industry analysis, and comparison of the emerging disruptive technologies", DEMSEE 2008 Conference in June 2008.
- Antonis P. Papadakis, Stamatis D. Rossides, Charalambos P. Nicolaou and Venizelos Efthymiou, "Monitoring and control of the cable temperature of overhead power transmission and distribution lines in Cyprus", DEMSEE 2008 Conference in June 2008.
- C. P. Nicolaou, G. K. Demetriou, G. C. Makrides, A. P. Papadakis, P. A. Razis and G. E. Georgiou, "Electromagnetic Measurements and Analysis of the Telecommunication Network Cellular Base Stations", EUROEM'08.
- George Makrides, Charalambos Nicolaou, George E. Georgiou, Yiannos Ioannides, and Venizelos Efthymiou, "Electric and magnetic power frequency field measurements in the vicinity of distribution substations – Measurement protocol, results and precautions", University of Cyprus and EAC Working Paper.
- P. Ioannides, C. Nicolaou, C. Pitris, "Wavelet Decomposition and Unresolvable Component Analysis of Optical Coherence Tomography Signals", SPIE Proceedings, European Conference on Biomedical Optics, Munich, Germany, June 14-16, 2005.
- P. Ioannides, C. Nicolaou, C. Pitris, "Decomposition and Analysis of Unresolvable Optical Coherence Tomography Signals", Biomedical Optics, Photonics West, January 21-27, 2006.